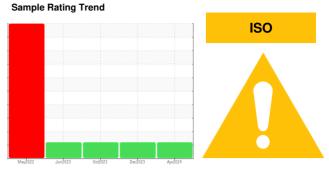


# **OIL ANALYSIS REPORT**

BAGLINE
Machine Id
KETTLE 8 - BAG

Top Refrigeration Compressor

PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- GAL)



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006486	USP0004481	USP0001357
Sample Date		Client Info		21 Apr 2024	17 Dec 2023	10 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5	39	15
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	2	2	2
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	''	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		۰ <1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
· · · · · · · · · · · · · · · · · · ·	ppm	ASTM D5185m		0	<1	<1
Manganese Magnesium	ppm	ASTM D5185m		1	0	1
Calcium	ppm	ASTM D5185m		4	3	9
	ppm	ASTM D5185m		552	494	486
Phosphorus Zinc	ppm	ASTM D5185m		3	0	0
-	ppm			_	455	485
Sulfur	ppm	ASTM D5185m		440		
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	10	8
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.01	0.00	0.006	0.004
ppm Water	ppm	ASTM D6304	>100	0	67	41.3
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	<u>^</u> 27883	▲ 98281	▲ 87470
Particles >6µm		ASTM D7647	>2500	<b>976</b>	<b>▲</b> 7087	<u></u> 5100
Particles >14μm		ASTM D7647	>640	234	32	77
Particles >21µm		ASTM D7647	>160	46	5	13
Particles >38µm		ASTM D7647	>40	1	0	4
Particles >71μm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/16	<u>22/19/15</u>	<u>4</u> 24/20/12	<b>2</b> 4/20/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.59	0.65	0.35	0.43



# **OIL ANALYSIS REPORT**







Certificate 12367

Sample No. Lab Number

Test Package : IND 2

Laboratory : 06156011 Unique Number : 10991434

: USP0006486

Received : 22 Apr 2024 Tested Diagnosed

: 23 Apr 2024 : 23 Apr 2024 - Jonathan Hester

4601 C ST SW CEDAR RAPIDS, IA

US 52404 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Service Manager - KRACED

T:

F: